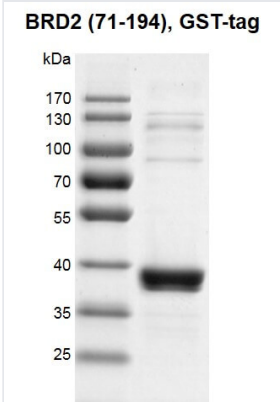
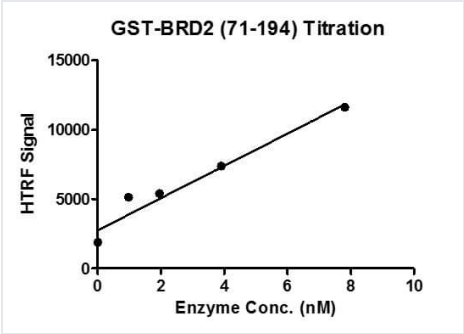
BRD2 Recombinant Protein

PRODUCT OVERVIEW

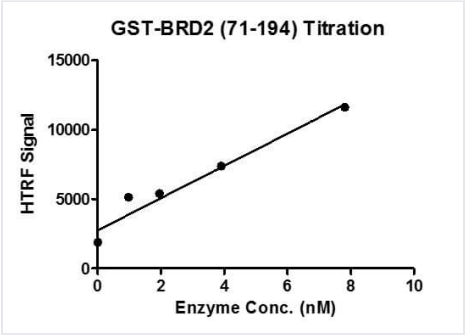
Product Name	BRD2, Recombinant Protein
Full Product Name	Recombinant BRD2 (71-194) protein, GST-Tag
Product Gene Name	BRD2 recombinant protein
Product Synonym Names	FSH; NAT; RNF3; FSRG1; RING3; D6S113E
Host	E Coli
Form/Format	Recombinant BRD2 (71-194), GST-Tag protein is supplied in 25mM Tris-HCl pH8.0, 300mM NaCl, 10% glycerol.
Preparation and Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80 degree C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage. Shipping Temp: Dry Ice
Molecular Weight	Molecular weight of 41kDa
Protein Species	Human
Tag	GST-Tag
Notes	This protein is suitable for use in binding assays, inhibitor screening, and selectivity profiling.
Dry Ice Shipment	Extra charge fee may add to your shipping cost as dry ice is required to ship this product.
Product Categories/Family for BRD2 recombinant protein	Recombinant Proteins; Bromodomain
Related Product Information for BRD2 recombinant protein	Short Description: Recombinant BRD2 (71-194), GST-Tag protein includes amino acids 71-194 (the first Bromodomain) of human BRD2 protein (accession number NP_005095.1); it was expressed in E Coli and contains an N-terminal GST-Tag with a molecular weight of 41 kDa. This protein is suitable for use in binding assays, inhibitor screening, and selectivity profiling. Background: Bromodomain-containing protein 2 (BRD2), also known as RING3, belongs to the BET subclass of proteins, which are characterized by two N-terminal bromodomains and one ET (Extra Terminal) domain. BRDs associate with chromatin through their bromodomains that recognize acetylated histone lysine residues. Bromodomains function as 'readers' of these epigenetic histone marks and regulate chromatin structure and gene expression by linking associated proteins to the acetylated nucleosomal targets. The ET domain functions as a protein binding motif and exerts atypical serine-kinase activity. The BET family consists of at least four members in mouse and human, BRD2 (also referred to as FSRG1, RING3), BRD3 (FSRG2, ORFX), BRD4 (FSRG4, MCAP/HUNK1), and BRDT (FSRG3, BRD6). BRD proteins are related to the female Sterile Homeotic protein in Drosophila, a gene required maternally for proper expression of other homeotic genes, such as Ubx, which is involved in pattern formation. BRD2 causes elevated protein kinase activity in leukemias. Transgenic mice overexpressing BRD2 in the lymphoid system develop diffuse large-cell lymphoma. BRD2 has been shown to interact with E2F1 and with histone H4 acetylated at Lys12 via its two bromodomains. BRD2 may play a role in spermatogenesis or folliculogenesis. Genetic evidence links the BRD2 gene to both juvenile myoclonic epilepsy and photoparoxysomal responses. It shows binding specificity for acetylated H4K5, H4K5/8, H4K5/12, H4K8/12, H4K12/16, H4K12/16/20 and H4K5/8/12/16.
Other Notes	Small volumes of BRD2 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for BRD2 purchase	MBS389206 is a recombinant protein targeting BRD2. Also known as Recombinant BRD2 (71-194) protein, GST-Tag. Host: E Coli.



SDS-Page of BRD2 recombinant protein
Recombinant BRD2 (71-194), GST-Tag, protein gel 10% SDS-PAGE Coomassie staining MW: 41 kDa Purity: >85%



Testing Data of BRD2 recombinant protein
HTRF assay for BRD2 (71-194), GST-tag activity 3 uM histone H4K5/8/12/16(ac4) peptide was incubated with different concentrations of BRD2 (71-194), GST-tag protein in a 10 ul reaction system containing 50 mM HEPES-NaOH pH 7.4, 0.1% BSA for 1 hour, then 10 ul GST antibody and SA-XL665 mixture (each 1:100 dilution in the reaction buffer) was added to each reaction system and incubated for 30 min. All the operations and reactions were performed at room temperature. HTRF assay was used for detection.



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ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for BRD2. It may not necessarily be applicable to this product.

NCBI Accession #	NP_005095.1
Protein Family	Bromodomain-containing protein
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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Online datasheet: https://www.mybiosource.com/recombinant-protein/brd2/389206