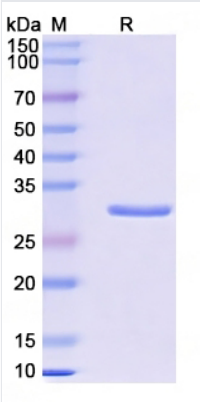
TACR1 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	TACR1, Recombinant Protein
Full Product Name	Recombinant Human TACR1 Protein, N-GST & C-His
Product Gene Name	TACR1 recombinant protein
Product Synonym Names	TAC1R; Tachykinin receptor 1; NK-1R; NK1R; SPR; TACR1; Substance-P receptor; NK-1 receptor
Host	E coli
Form/Format	Lyophilized from a solution in PBS pH7.4, 0.02% NLS, 1mM EDTA, 4% Trehalose, 1% Mannitol.
Purity/Purification	>90% as determined by SDS-PAGE
Preparation and Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 degree C for one week. Store at -20 degree C for twelve months from the date of receipt.
Molecular Weight	46,251 Da
Sequence Positions	Gly166-Glu193
Chromosome Location	Chromosome: 2; NC_000002.11 (75273590..75426645, complement). Location: 2p12
OMIM	162323
3D Structure	ModBase 3D Structure for P25103
Species	Human
Reconstitution	Reconstitute in sterile water for a stock solution.
Product Categories/Family for TACR1 recombinant protein	Recombinant Proteins
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for TACR1 recombinant protein	SDS-PAGE (SDS), Western Blot (WB), ELISA (EIA), Immunogen
Related Product Information for TACR1 recombinant protein	MBS1578096 is a recombinant protein targeting TACR1. Also known as Recombinant Human TACR1 Protein, N-GST & C-His. Host: E coli.
Product References and Citations for TACR1 recombinant protein	HBx induces hepatocellular carcinogenesis through ARRB1-mediated autophagy to drive the G1/S cycle. PMID: 33866937 Fibromyalgia: A Review of Related Polymorphisms and Clinical Relevance. PMID: 34730627 A spinoparabrachial circuit defined by Tacr1 expression drives pain. PMID: 33591273 The pharmacology of itch. PMID: 31612462 Human Sensory Neuron-like Cells and Glycated Collagen Matrix as a Model for the Screening of Analgesic Compounds. PMID: 35053363
Other Notes	Small volumes of TACR1 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.



SDS-Page of TACR1 recombinant protein
SDS PAGE for Recombinant Human TACR1 protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TACR1. It may not necessarily be applicable to this product.

NCBI GI #	4507343
NCBI GeneID	6869
NCBI Accession #	NP_001049.1
UniProt Primary Accession #	P25103
UniProt Secondary Accession #	A8K150
UniProt Related Accession #	P25103
GenBank Nucleotide #	NM_001058.3
NCBI Official Full Name	substance-P receptor isoform long
NCBI Official Synonym Full Names	tachykinin receptor 1
NCBI Official Symbol	TACR1
NCBI Official Synonym Symbols	SPR; NK1R; NKIR; TAC1R
UniProt Protein Name	Substance-P receptor
UniProt Synonym Protein Names	NK-1 receptor; NK-1R; Tachykinin receptor 1
Protein Family	Substance-P receptor
UniProt Gene Name	TACR1
UniProt Synonym Gene Names	NK1R; TAC1R; SPR; NK-1R
UniProt Entry Name	NK1R_HUMAN
NCBI Protein Information	substance-P receptor; NK-1R; NK-1 receptor; tachykinin receptor 1 (substance P receptor; neurokinin-1 receptor)
NCBI Summary for TACR1	This gene belongs to a gene family of tachykinin receptors. These tachykinin receptors are characterized by interactions with G proteins and contain seven hydrophobic transmembrane regions. This gene encodes the receptor for the tachykinin substance P, also referred to as neurokinin 1. The encoded protein is also involved in the mediation of phosphatidylinositol metabolism of substance P. [provided by RefSeq, Sep 2008]

UniProt Comments for TACR1	TACR1: This is a receptor for the tachykinin neuropeptide substance P. It is probably associated with G proteins that activate a phosphatidylinositol-calcium second messenger system. The rank order of affinity of this receptor to tachykinins is: substance P > substance K > neuromedin-K. Belongs to the G-protein coupled receptor 1 family. Protein type: Membrane protein, multi-pass; Receptor, GPCR; GPCR, family 1; Membrane protein, integral Chromosomal Location of Human Ortholog: 2p12 Cellular Component: cell surface; integral to plasma membrane; dendrite; cytoplasm; plasma membrane Molecular Function: protein binding; substance P receptor activity; tachykinin receptor activity Biological Process: response to nicotine; tachykinin signaling pathway; positive regulation of leukocyte migration; response to morphine; positive regulation of saliva secretion; response to estradiol stimulus; elevation of cytosolic calcium ion concentration; behavioral response to pain; regulation of smooth muscle cell migration; positive regulation of lymphocyte proliferation; positive regulation of stress fiber formation; positive regulation of action potential; response to electrical stimulus; inflammatory response; angiotensin mediated drinking behavior; associative learning; detection of abiotic stimulus; positive regulation of synaptic transmission, cholinergic; regulation of smooth muscle cell proliferation; eating behavior; positive regulation of hormone secretion; positive regulation of synaptic transmission, GABAergic; positive regulation of ossification; positive regulation of vascular permeability; response to ethanol; long-term memory; smooth muscle contraction involved in micturition; response to heat; response to ozone; operant conditioning; positive regulation of vasoconstriction; G-protein signaling, coupled to IP3 second messenger (phospholipase C activating); sperm ejaculation; response to progesterone stimulus; positive regulation of epithelial cell proliferation; positive regulation of blood pressure; acute inflammatory response
Research Articles on TACR1	**1.** NK1R expression correlates positively with plasma insulin, fatty acid, and complement C3 and negatively with adiponectin, CEBPalpha, CEBPbeta, and peroxisome proliferator-activated receptor-gamma mRNA expression in omental, but not subcutaneous, adipose tissue.
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