Transducin-Like Enhancer Protein 4 (tle4) Xenopus Laevis Recombinant Protein

PRODUCT OVERVIEW

Product Name	Transducin-like enhancer protein 4 (tle4), Recombinant Protein
Full Product Name	Recombinant Xenopus laevis Transducin-like enhancer protein 4 (tle4), partial
Product Gene Name	tle4 recombinant protein
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	83,706 Da
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for O42478
Species	Xenopus laevis (African clawed frog)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for tle4 recombinant protein	MBS1241459 is a recombinant protein targeting tle4. Also known as Recombinant Xenopus laevis Transducin-like enhancer protein 4 (tle4), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of tle4 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for tle4. It may not necessarily be applicable to this product.

NCBI GI #	148232182
NCBI GeneID	399397
NCBI Accession #	NP_001084260.1
UniProt Primary Accession #	O42478
UniProt Secondary Accession #	Q6AX22; Q9PSX1
GenBank Nucleotide #	NM_001090791.1
NCBI Official Full Name	transducin-like enhancer of split 4
NCBI Official Synonym Full Names	transducin like enhancer of split 4 S homeolog
NCBI Official Symbol	tle4.S
NCBI Official Synonym Symbols	ESG; gro; esg4; grg4; tle4; Grg-4; Xgrg4; Xtle4; XGrg-4; XTCF-4; X-groucho

UniProt Protein Name	Transducin-like enhancer protein 4
UniProt Synonym Protein Names	Enhancer of split groucho-like protein 2; ESG2; xESG2; Grg-4; XGrg-4; Groucho-related protein 4
Protein Family	Transducin-like enhancer protein
UniProt Gene Name	tle4
UniProt Synonym Gene Names	esg2; ESG2; xESG2; XGrg-4
NCBI Protein Information	transducin-like enhancer of split 4
UniProt Comments for tle4	Transcriptional corepressor. Functions with ripply2.2/bowline to down regulate transcription of tbx6-dependent gene expression. Represses transcription of siamois and nodal3.
Research Articles on tle4	**1.** Grg4 blocks Nodal-induced mesodermal gene expression and Nodal autoregulation. Grg4 occupancy of the Xnr1 enhancer is dependent on the FoxH1 EH1 motif. Grg4 occupancy at this enhancer significantly decreases with Nodal activation or Smad2 overexpression. Nodal-activated Smad2 physically displaces Grg4 from FoxH1. When FoxH1 is unable to bind Smad2, Grg4 occupancy is maintained at the Xnr1 enhancer.
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