

Recombinant Human SMAD9 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP50906

Size: 10ug, 100ug

Protein Name: SMAD family member 9 (SMAD 9) (Madh6) (Mothers against decapentaplegic homolog 9) (MAD homolog 9) (Mothers against DPP homolog 9)

Synonym: SMAD9, MADH6, MADH9, SMAD8

UniProt ID: O15198

UniProt Link: www.uniprot.org/uniprotkb/O15198/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 467 AA

Molecular Weight: 52 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MHSTTPISSLFSFTSPA VKRLLGWKQGDEEEKWAEKAVDSL VKKLKKKKGAMDELERALSCPGQPS
KCVTIPRSLDGR LQVSHRKGLPHVIYCRVWRWPD LQSHHELKPLECCEFPFGSKQKEVCINPYHYR
RVETPVLPPVLVPRHSEYNPQLSLLAKFRSASLHSEPLMPHNATYPDSFQQPPCSALPPSPSHAFSQ
SPCTASYPHSPGSPSEPE SPYQHSVDTPPLPYHATEASETQSGQPVDATADRHVVLSIPNGDFRPV
CYEEPQHWCSVAYYELNNRVGETFQASSRSVLIDGFTDPSNNRNRFC LGLLSNVNRNSTIENTRRHI
GKGVHLYYVGGEVYAECVSDSSIFVQSRNCNYQHGFHPATVCKIPSGCSLKVFNQLFAQLLAQSV
HHGFVVYELTKMCTIRMSFVKGWGA EYHRQDVTSTPCWIEIHLHG PLQWLDKVL TQMGSPHNPIS
SVS

3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

5. Product Description

This product is recombinant SMAD family member 9 (SMAD 9) (Madh6) (Mothers against decapentaplegic homolog 9) (MAD homolog 9) (Mothers against DPP homolog 9) produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

Protein Function: Transcriptional modulator activated by BMP (bone morphogenetic proteins) type 1 receptor kinase. SMAD9 is a receptor-regulated SMAD (R-SMAD).

Subcellular Localization: Cytoplasm . Nucleus . Note=In the cytoplasm in the absence of ligand. Migration to the nucleus when complexed with SMAD4 (By similarity).

6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.