

Recombinant Rat SPON2 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP52608

Size: 10ug, 100ug

Protein Name: Spondin-2 (Mindin)

Synonym: Spon2

UniProt ID: Q9WV75

UniProt Link: www.uniprot.org/uniprotkb/Q9WV75/entry

Species Source: Rat

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 330 AA

Molecular Weight: 36 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MENVSFSLDRTLWVFLLAMLGSTAGQPLGGESVCTARPLARYSITFTGKWSQTAFPKQYPLFRPPA
QWSSLLGAHSSDYSMWVRKNEYVSNGLRDFEAERGEAWALMKEIEAAGEKLQSVHAVFSAPAVPSG
TGQTSAELEVHPRHSLVSFVVRIVSPDWVFGIDSLDLCEGGRWKEQVVDLYPHDAGTDSGFTFS
SPNFATIPQDTVTEITASSPSHPANSFYYPRLKSLPPIAKVTFVRLRQSPRAFAPPSLDLASRGNEIVD
SLVSPETPLDCEVSLWSSWGLCGGPCGKLGAKSRTRYVRVQPANNGTPCPELEEEAEACAPDNCV

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 Spondin-2 (Mandin) 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: Cell adhesion protein that promotes adhesion and outgrowth of hippocampal embryonic neurons. Binds directly to bacteria and their components and functions as an opsonin for macrophage phagocytosis of bacteria. Essential in the initiation of the innate immune response and represents a unique pattern-recognition molecule in the ECM for microbial pathogens (By similarity).

Subcellular Localization: Secreted, extracellular space, extracellular matrix.

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.