

Recombinant Human OSTP Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP50757

Size: 10ug, 100ug

Protein Name: Osteopontin (Bone sialoprotein 1) (Nephropontin) (Secreted phosphoprotein 1) (SPP-1) (Urinary stone protein) (Uropontin)

Synonym: SPP1, BNSP, OPN, PSEC0156

UniProt ID: P10451

UniProt Link: www.uniprot.org/uniprotkb/P10451/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 314 AA

Molecular Weight: 35 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MRIAVICFCLLGITCAIPVKQADSGSSEEKQLYNKYPPDAVATWLNPDPSQKQKQKLLAPQNAVSSEETN
DFKQETLPSKSNESHDMDDMDEDDDDHVDSDSDSNDSDDDVDDTDDSHQSDSHHSDDESDE
LVTDFPTDLPATEVFTPVPTVDITYDGRGDSVVYGLRSKSKKFRRPDIQYPDATDEDITSHMESEEL
NGAYKAIPVAQDLNAPSDWDSRGKDSYETSQLDDQSAETHSHKQSRLYKRKANDESNEHSDVIDS
QELSKVSREFHSHEFHSHEDMLVVDPKSKEEDKHLKFRISHELDSASSEVN

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 Osteopontin (Bone sialoprotein 1) (Nephropontin) (Secreted phosphoprotein 1) (SPP-1) (Urinary stone protein) (Uropontin) 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: Major non-collagenous bone protein that binds tightly to hydroxyapatite. Appears to form an integral part of the mineralized matrix. Probably important to cell-matrix interaction.; Acts as a cytokine involved in enhancing production of interferon-gamma and interleukin-12 and reducing production of interleukin-10 and is essential in the pathway that leads to type I immunity.

Subcellular Localization: Secreted .

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.