

Recombinant Human I22R1 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP50437

Size: 10ug, 100ug

Protein Name: Interleukin-22 receptor subunit alpha-1 (IL-22 receptor subunit alpha-1) (IL-22R-alpha-1) (IL-22RA1) (Cytokine receptor class-II member 9) (Cytokine receptor family 2 member 9) (CRF2-9) (ZcytoR11)

Synonym: IL22RA1, IL22R

UniProt ID: Q8N6P7

UniProt Link: www.uniprot.org/uniprotkb/Q8N6P7/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 574 AA

Molecular Weight: 63 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MRTLLTILTVGSLAAHAPEDPSDLLQHVKFQSSNFENILTWDSGPEGTPDTVYSIEYKTYGERDWVA
KKGCRITRKSCNLT VETGNLT ELYYARVTAVSAGGRSATKMTDRFSSLQHTTLKPPDVT CISKVRSI
QMIVHPTPTPIRAGDGHRLTLEDIFHDLFYHLELQVNRTYQMH LGGKQREYEFFGLTPDTEFLGTIMI
CVPTWAKESAPYMCRVKTL PDRTWTYSFSGAFLFSMGFLVAVLCYLSYRYVT KPPAPPNSLNVQRV
LTFQPLRFIQEHVLIPVFDLSGPSSLAQP VQYSQIRVSGPREPAGAPQRHSLSEITYLGQPDISILQPS
NVPPPQILSPLSYAPNAAPEVGP PSYAPQVTPEAQFPFYAPQAISKVQPSSYAPQATPDSWPPSYGV
CMEGSGKDSPTGTLSSPKHLRPGQLQKEPPAGSCMLGGLSLQEVTSLAMEESQEAKSLHQPLGIC
TDRSDPNVLHSGEEGTPQYLKGQLPLLSSVQIEGHPMSLPLQPPSRPCSPSDQGPPSPWGLLES LV
CPKDEAKSPAPETSDLEQPTELDSLFRGLALTVQWES

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 Interleukin-22 receptor subunit alpha-1 (IL-22 receptor subunit alpha-1) (IL-22R-alpha-1) (IL-22RA1) (Cytokine receptor class-II member 9) (Cytokine receptor family 2 member 9) (CRF2-9) (ZcytoR11) 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: Component of the receptor for IL20, IL22 and IL24. Component of IL22 receptor formed by IL22RA1 and IL10RB enabling IL22 signaling via JAK/STAT pathways. IL22 also induces activation of MAPK1/MAPK3 and Akt kinases pathways. Component of one of the receptor for IL20 and IL24 formed by IL22RA1 and IL20RB also signaling through STATs activation. Mediates IL24 antiangiogenic activity as well as IL24 inhibitory effect on endothelial cell tube formation and differentiation.

Subcellular Localization: Cell membrane ; Single-pass type I membrane protein .

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.