Recombinant STAP1 protein (His tag)

Catalog Number	546235
Synonyms	STAP-1; BCR downstream-signaling protein 1; Docking protein BRDG1; Stem cell adaptor protein 1
Species	Human
Expression System	E. coli
Accession	Q9ULZ2
Molecular Weight	Predictes a molecular mass of 35.95 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 38 kDa band.

Product Information

Sequence Region	1-295
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>85%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 1-295 aa (Q9ULZ2) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Recombinant Human STAP-1 Fragment (1-295) is a high-purity protein designed for studying B-cell receptor (BCR) signaling pathways. This fragment encompasses the full PH and SH2 domains, making it an ideal tool for investigating domain-specific interactions and regulatory mechanisms in cellular signaling. Signal-transducing adaptor protein 1 (STAP-1) functions as a docking protein downstream of TEC in BCR signaling, participating in a positive feedback loop that amplifies TEC activity. The protein localizes to multiple cellular compartments including the nucleus, cytoplasm, and mitochondria, suggesting diverse regulatory roles in cellular signaling networks. The provided fragment (amino acids 1-295) contains the complete PH and SH2 domains, enabling researchers to study these critical functional regions independently while maintaining their structural integrity.