Recombinant STYK1 protein (His tag)

Catalog Number	540510
Synonyms	Novel oncogene with kinase domain; Protein PK-unique; Serine/threonine/tyrosine kinase 1
Species	Human
Expression System	E. coli
Accession	Q6J9G0
Molecular Weight	Predictes a molecular mass of 39.16 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 39 kDa band.

Product Information

Sequence Region	91-422
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>88%, 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 91-422 aa (Q6J9G0) 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 STYK1 Kinase Domain (aa 91-422) is a high-purity fragment of the tyrosine-protein kinase STYK1, encompassing the complete protein kinase domain (aa 114-384). This product is ideal for investigating kinase activity, signaling mechanisms, and the oncogenic potential of STYK1 in cancer research and drug discovery applications. STYK1 (Tyrosine-protein kinase STYK1) is a membrane-associated, single-pass transmembrane protein with probable tyrosine kinase activity. It exhibits strong transforming capabilities and, when overexpressed, can promote tumor cell invasion and metastasis to distant organs. The kinase is suggested to function by activating key signaling pathways, including MAP kinase and phosphatidylinositol 3'-kinase (PI3K) cascades, implicating it in critical cellular processes related to oncogenesis. The recombinant fragment provided allows focused study of the kinase domain's specific biochemical and functional properties.