Recombinant RASE protein (His tag)

Catalog Number	549003
Synonyms	E-Ras; Embryonic stem cell-expressed Ras
Species	Human
Expression System	E. coli
Accession	Q7Z444
Molecular Weight	Predictes a molecular mass of 22.53 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 23 kDa band.

Product Information

Sequence Region	38-230
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, 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 38-230 aa (Q7Z444) 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 GTPase ERas (E-Ras) Fragment (38-230) is a high-purity, stable protein designed for structural and biochemical research. This 193-amino acid fragment retains key functional regions, offering researchers a reliable tool to study the role of ERas in embryonic stem cell growth and tumor-like properties. GTPase ERas (E-Ras), encoded by the ERAS gene in humans, is a Ras family protein that binds GDP/GTP and exhibits intrinsic GTPase activity. It plays a critical role in the tumor-like growth properties of embryonic stem cells, contributing to their unique proliferative characteristics. The full-length protein is localized to the cell membrane, where it is anchored via a lipid modification on the cytoplasmic side, facilitating its involvement in signaling pathways. This recombinant fragment (residues 38-230) was selected for its stability and solubility, enabling detailed investigation of ERas function without domain-specific constraints.