

Recombinant Human FOXH1 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP50339

Size: 10ug, 100ug

Protein Name: Forkhead box protein H1 (Forkhead activin signal transducer 1) (Fast-1) (hFAST-1) (Forkhead activin signal transducer 2) (Fast-2)

Synonym: FOXH1, FAST1, FAST2

UniProt ID: O75593

UniProt Link: www.uniprot.org/uniprotkb/O75593/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 365 AA

Molecular Weight: 39 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MGPCSGSRLGPPEAESPSQPPKRRKKRYLRHDKPPYTYLAMIALVIQAAPSRRLKLAQIIRQVQAVF
PFFREDYEGWKDSIRHNLSSNRCFRKVPKDPAPKQAKGNFWAVDVSLIPAEALRLQNTALCRRWQ
NGGARGAFADLGPYVLHGRPYRPPSPPPPPSEGFSSIKSLLGSGEGAPWPGLAPQSSPVPAGTG
NSGEEAVPTPPLPSSERPLWPLCPLPGPTRVEGETVQGGAIGPSTLSPEPRAWPLHLLQGTAVPGG
RSSGGHRASLWGQLPTSYPITPNVVMPLAPPPTSCPQCPSTSPAYWGVAPETRGPPLGLCDLDA
LFQGVPPNKSIDVWVSHPRDLAAPGPGWLLSWCSL

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 Forkhead box protein H1 (Forkhead activin signal transducer 1) (Fast-1) (hFAST-1) (Forkhead activin signal transducer 2) (Fast-2) 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: Transcriptional activator. Recognizes and binds to the DNA sequence 5'-TGT[GT][GT]ATT-3'. Required for induction of the goosecoid (GSC) promoter by TGF-beta or activin signaling. Forms a transcriptionally active complex containing FOXH1/SMAD2/SMAD4 on a site on the GSC promoter called TARE (TGF-beta/activin response element).

Subcellular Localization: Nucleus.

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.