

32-5005: Recombinant Human Sulfatase Modifying Factor 1

Alternative Name : Sulfatase modifying factor 1, FGE, C-alpha-formylglycine-generating enzyme 1, FGly-generating enzyme, UNQ3037, AAPA3037, EC 1.8.99.

Description

Source : E.coli. SUMF1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 304 amino acids (91-374 a.a.) and having a molecular mass of 34.1kDa. SUMF1 is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. SUMF1 is a member of the SUMF family. SUMF1 catalyzes the hydrolysis of sulfate esters by oxidizing a cysteine residue in the substrate sulfatase to an active site 3-oxoalanine residue called C-alpha-formylglycine. Alterations in this gene result in multiple sulfatase deficiency which is a lysosomal storage disorder.

Product Info

Amount : 10 µg
Purification : Greater than 85% as determined by SDS-PAGE.
Content : SUMF1 protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 2M UREA, 2mM DTT and 20% glycerol.
Storage condition : Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.
Amino Acid : MGSSHHHHHH SSSLVPRGSH MVPIAGVFT MGTDDPQIKQ DGEAPARRVT IDAFYMDAYE VSNTFEKFKV
 NSTGYLTEAE KFGDSFVFEG MLSEQVKTN I QQAVAAAPWW LPVKGANWRH PEGPDSTILH
 RPDHPVLHVS WNDVAVYCTW AGKRLPTEAE WEYSCRGLH NRLFPWGNKL QPKGQHYANI
 WQGEFPVTNT GEDGFQGTAP VDAFPNGYG LYNIVGNAWE TSDWWTVHH SVEETLNPKG
 PPSGKDRVKK GGSYMCHRSY CYRYRCAARS QNTPDSSASN LGFRCAADRL PTMD

