Recombinant MS3L1 protein (His tag)

Catalog Number	547745
Synonyms	Male-specific lethal 3 homolog; Male-specific lethal-3 homolog 1; Male-specific lethal-3 protein-like 1; MSL3-like 1
Species	Human
Expression System	E. coli
Accession	Q8N5Y2
Molecular Weight	Predictes a molecular mass of 14.83 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 15 kDa band.

Product Information

Sequence Region	1-113
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 1-113 aa (Q8N5Y2) 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 MSL3 Fragment (1-113) is a high-purity protein designed for chromatin and epigenetic research. This fragment encompasses the Tudor-knot domain, enabling targeted studies of histone recognition and MSL complex interactions in gene regulation and dosage compensation. MSL complex subunit 3 (MSL3) is a non-catalytic component of the MSL histone acetyltransferase complex, which mediates histone H4 acetylation at Lys-16 (H4K16ac). This epigenetic modification prevents chromatin compaction and is essential for chromosome stability and genome integrity. MSL3 functions as a histone reader, specifically binding monomethylated H4K20 in a DNA-dependent manner, and is implicated in X-chromosome gene dosage compensation and Tsix non-coding RNA expression. The protein localizes to the nucleus, where it contributes to the MSL complex's role in maintaining homeostatic acetylation levels and facilitating chromosomal targeting.