

WDR77 Protein, Human, Recombinant (His & SUMO)

General Information

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| Synonyms: | Androgen receptor cofactor p44;Methylosome protein WDR77;WD45;WDR77;Methylosome protein 50 (MEP-50);MEP50;WD repeat-containing protein 77;p44/Mep50 |
| Protein Construction: | 1-312 aa |
| Species: | Human |
| Expression Host: | E. coli |
| Accession: | Q9BQA1 |
| Molecular Weight: | 49.6 kDa (predicted) |
| AA Sequence: | MRKETPPPLVPPAAREWNLPPNAPACMERQLEAARYRSDGALLLGASSLSGRCWAGSLWLFKDPCAAPNE GFCSAGVQTEAGVADLTWVGERGILVASDSGAVELWELDENETLIVSKFCKYEHDDIVSTVSVLSSGTQAVSG SKDICKVWDLAQVVLSSYRAHAAQVTCVAASPHKDSVFLSCSEDNRILLWDTRCPKPASQIGCSAPGYLPT SLAWHPQQSEVFFVFGDENGTVSLVDTKSTSCVLSSAVHSQCVTGLVFPSPHVPFLASLSEDCSLAVLDSSSEL FRSQAHRDFVRDATWSPLNHSL |

QC Testing

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| Biological Activity: | Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first. |
| Purity: | > 90% as determined by SDS-PAGE. |
| Endotoxin: | < 1.0 EU/μg of the protein as determined by the LAL method. |
| Formulation: | Tris-based buffer, 50% glycerol |

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Non-catalytic component of the methylosome complex, composed of PRMT5, WDR77 and CLNS1A, which modifies specific arginines to dimethylarginines in several spliceosomal Sm proteins and histones. This modification targets

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Sm proteins to the survival of motor neurons (SMN) complex for assembly into small nuclear ribonucleoprotein core particles. Might play a role in transcription regulation. The methylosome complex also methylates the Piwi proteins (PIWIL1, PIWIL2 and PIWIL4), methylation of Piwi proteins being required for the interaction with Tudor domain-containing proteins and subsequent localization to the meiotic nuage.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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