

MATERIAL DATA SHEET**GST-UbcH2/UBE2H, human recombinant****Cat. # E2-605**

This E2 enzyme encodes for the human homolog of the yeast Ubc8 gene. UbcH2 can conjugate ubiquitin to histone H2A in an E3-independent manner *in vitro*. This E2 enzyme is also involved in the ubiquitination of N-end rule pathway substrates, and can function in conjugation with the E3 α ligase enzyme. Additionally, UbcH2 may have a role in sepsis-induced muscle protein proteolysis and cancer-induced cachexia. Accession # NP_003335. This protein has an N-terminal GST tag.

Product Information

Quantity:	X μ g
Stock:	X mg/ml (50 μ M) in 50 mM HEPES pH 8.0, 100 mM NaCl, 10% glycerol. Actual protein concentration will vary by specific Lot #.
MW:	43 kDa
Purity:	> 95% by SDS-PAGE

Use & Storage

Use:	Typical enzyme concentration to support conjugation <i>in vitro</i> is 100 nM-1 μ M depending on conditions.
Storage:	Store at -80°C. Avoid multiple freeze/thaw cycles.

Literature

References:	Baboshina O.V., <i>et al.</i> (2001) <u>J. Biol. Chem.</u> 276 :39428-39437 Cao PR. <i>et al.</i> (2005) <u>Int. J. Biochem. Cell. Biol.</u> 37 :2088-2097 Dohmen J.R., <i>et al.</i> (1991) <u>Proc. Natl. Acad. Sci.</u> 88 :7351-7355 Hasselgren P.O. (1999) <u>Mol. Biol. Rep.</u> 26 :71-76 Hobler S.C., <i>et al.</i> (1999) <u>Am. J. Physiol.</u> 276 :468-473 Kaiser P., <i>et al.</i> (1995) <u>FEBS. Lett.</u> 377 :193-196 Lazarus D.D. <i>et al.</i> (1999) <u>Amer. Physiol. Soc.</u> 277 : E332-341 Solomon V., <i>et al.</i> (1998) <u>J. Biol. Chem.</u> 273 :25216-25222 Wing S.S., <i>et al.</i> (1992) <u>J. Biol. Chem.</u> 267 :6495-6501
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