

MATERIAL DATA SHEET**GST-UbcH2 (E2-14K), *human recombinant*****Cat. # E2-605**

This E2 enzyme encodes for the human homolog of the yeast DNA repair gene RAD6, which is induced by DNA damaging agents. UbcH2 can conjugate ubiquitin to histone H2A in an E3-independent manner *in vitro*, and is essential for the multi-ubiquitination and degradation of N-end rule substrates. Additionally, UbcH2 may have a role in sepsis-induced muscle protein proteolysis and cancer-induced cachexia.

Product Information

Quantity:	X µg
Stock:	X mg/ml (50 µM) 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 µM 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 Dohmen J.R., <i>et al.</i> (1991) <u>Proc. Natl. Acad. Sci.</u> 88 :7351-7355 Kaiser P., <i>et al.</i> (1995) <u>FEBS. Lett.</u> 377 :193-196 Hobler S.C., <i>et al.</i> (1999) <u>Am. J. Physiol.</u> 276 :468-473 Wing S.S., <i>et al.</i> (1992) <u>J. Biol. Chem.</u> 267 :6495-6501
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