

Recombinant Human CER1 Protein, His-tagged

Cat. No. CER1-114H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Transforming Growth Factor beta 1 is produced by our Mammalian expression system and the target gene encoding Ala279-Ser390 is expressed.
Species	Human
Source	Human Cells
ProteinLength	279-390 a.a.
Description	Cerberus 1 is a secreted glycoprotein that forms disulfide-linked homodimers. It is a cytokine member of the DAN domain family of BMP antagonists that includes DAN (DAND1), Gremlin/Drm (DAND2), PRDC (Protein Related to Dan and Cerberus, DAND3), and COCO/Dante (DAND5). DAN family members contain a cysteine knot domain that is homologous to that found in other TGF-beta superfamily ligands. At the onset of gastrulation, Cerberus 1 is transiently expressed in anterior endodermal structures in response to Nodal and Shh. Cerberus 1 binds BMP-4 and Nodal and inhibits their activities. The inhibitory functions of Cerberus favor mesodermal development in the anterior region of the gastrula and suppresses posterior mesodermal differentiation. In chick and Xenopus, Cerberus 1 also regulates, but is not required for embryonic left-right polarization, neurulation, and head and heart induction.
Form	Lyophilized from a 0.2 um filtered solution of 20mM HAC.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Molecular Mass	Predicted Molecular Weight: 29.19kDa Apparent Molecular Weight: 35-42kDa, reducing conditions.
AA Sequence	Thr18-Ala267
Endotoxin	Less than 0.1 ng/ug (1 EU/ug).
Purity	>90%
Storage	Lyophilized protein should be stored at < -20 centigrade, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7 centigrade for 2-7 days. Aliquots of reconstituted samples are stable at < -20 centigrade for 3 months. Always centrifuge tubes before opening. Do not mix by vortex or pipetting
Reconstitution	It is not recommended to reconstitute to a concentration less than 100µg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Quality Statement	Purity: >90% as determined by reducing SDS-PAGE.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.

GENE INFORMATION

Gene Name	CER1 cerberus 1, DAN family BMP antagonist [Homo sapiens (human)]
Official Symbol	CER1
Synonyms	Cerberus; Cerberus-Related Protein; DAN Domain Family Member 4; DAND4

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Gene ID	9350
mRNA Refseq	NM_005454
Protein Refseq	NP_005445.1
MIM	603777
UniProt ID	O95813

SDS-PAGE
