

## 32-7525: Recombinant Human Cerberus 1/DAND4 (C-6His)

**Gene :** CER1  
**Gene ID :** 9350  
**Uniprot ID :** O95813

### Description

Source: Human Cells.  
MW :29.19kD.

Recombinant Human Cerberus 1 is produced by our Mammalian expression system and the target gene encoding Thr18-Ala267 is expressed with a 6His tag at the C-terminus. 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.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Lyophilized from a 0.2 µm filtered solution of 20mM HAc.  
**Storage condition :** Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.  
**Amino Acid :** TRHQDGRQNQSSLSPLVLLPRNQRELPTGNHEEAEEKPDLFVAVPHLVGTSPAGEGQRQREKMLS  
RFGRFWKKPEREMHPSRDSSEPFPPGTQSLIQPIDGMKMEKSPLREEAKFWHHFMFRKTPAS  
QGVLPIKSHEVHWETCRTVPFSQTITHEGCEKLVVQNNLCFGKCGSVHFPGAAQHSHTSCSHCLP  
AKFTTMHLPLNCTELSSVIKVVMLVEECQCKVKTEHEDGHILHAGSQDSFIPGVSAVDHHHHHH

### Application Note

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 Åµg/ml. Dissolve the lyophilized protein in ddH<sub>2</sub>O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

**Endotoxin :** Less than 0.1 ng/Åµg (1 IEU/Åµg) as determined by LAL test.