

## Product datasheet for TP503724

### Cbr1 (NM\_007620) Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse carbonyl reductase 1 (Cbr1), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR203724 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MSSSRPVALVTGANKGIGFAITRDLCRKFGSDVLAARDEERGQTAVQKLQAEGLSPRFHQLDIDNPQSI  
RALRDFLLKEYGGLDVLVNNAGIAFKVNDTPFHQAQEVMTKTNFFGTRDVCKELLPLIKPQGRVNVSS  
MVSLRALKNCRLELQQKFRSETITEELVGLMKNKFVEDTKKGVHAEAGWPNSAYGVTKIGVTVLSRILAR  
KLNEQRRGDKILLNACCPGWVRTDMAGPKATKSPEEGAETPVYLALLPPDAEGPHGQFVQDKKVEPW

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

Tag:	C-MYC/DDK
Predicted MW:	30.6 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<a href="#">NP_031646</a>
Locus ID:	12408
UniProt ID:	<a href="#">P48758</a> , <a href="#">B2RXY7</a>
RefSeq Size:	1081



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<b>Cytogenetics:</b>	16 54.53 cM
<b>RefSeq ORF:</b>	834
<b>Synonyms:</b>	AW261796; Cbr; CR
<b>Summary:</b>	NADPH-dependent reductase with broad substrate specificity. Catalyzes the reduction of a wide variety of carbonyl compounds including quinones, prostaglandins, menadione, plus various xenobiotics. Catalyzes the reduction of the antitumor anthracyclines doxorubicin and daunorubicin to the cardiotoxic compounds doxorubicinol and daunorubicinol. Can convert prostaglandin E2 to prostaglandin F2-alpha. Can bind glutathione, which explains its higher affinity for glutathione-conjugated substrates. Catalyzes the reduction of S-nitrosoglutathione (By similarity).[UniProtKB/Swiss-Prot Function]