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## Product Data Sheet

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Product Name: DOK4 Human  
 Cat. No.: GP23332  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	docking protein 4; Downstream of tyrosine kinase 4; IRS-5; IRS5.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMATNFSD IVKQGYVKMK SRKLGIIYRRC WLVRKSSSK GPQRLEKYPDEKSVCLRGCP KVTEISNVKC VTRLPKETKR QAVAIIFTDD SARTFTCDSE LEAEWYKTL SVECLGSRLNDISLGEPDLL APGVQCEQTD RFNVFLLPCP NLDVYGECKL QITHENIYLW DIHNPRVKLV SWPLCSLRRY GRDATRFTFE AGRMCDAGEGLYTFQTQEGE QIYQRVHSAT LAIAEQHKRV LLEMEKNVRL LNKGTEHYSY PCTPTTMLPR SAYWHHITGSQNI AEASSYA GEGYGAAQAS SETDLLNRFI LLKPKPSQGD SSEAKTPSQ.		
Formulation	DOK4 protein solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.4M UREA and 10% glycerol.		

### Introduction

Docking Protein 4(DOK4) is a member of the DOK family. DOK proteins are enzymatically inert adaptor or scaffolding proteins. The DOK proteins present a docking platform for the compilation of multimolecular signaling complexes. DOK4 serves in RET-mediated neurite outgrowth and has a positive role in activation of the MAP kinase pathway. DOK4 is a putative link with downstream effectors of RET in neuronal differentiation. DOK4 is involved in the regulation of the immune response induced by T-cells.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

**Caution: Product has not been fully validated for medical applications. For research use only.**

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DOK4 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 349 amino acids (1-326 a.a) and having a molecular mass of 39.4kDa. DOK4 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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