
Product Data Sheet

Product Name: MYD88 Human
 Cat. No.: GP23980
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Myeloid differentiation primary response protein MyD88; MYD88; MYD88D.		
Amino Acid Sequence	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMRPD RAEAPGPPAM AAGGPGAGSA APVSSTSSLP LAALNMRVRR RLSLFLNVRT QVAADWTALA EEMDFEYLEI RQLETQADPT GRLLDAWQGR PGASVGRLLLE LLTKLGRDDV LLELGPSIEE DCQKYILKQQ QEEAEKPLQV AAVDSSVPRT AELAGITTLD DPLGHMPERF DAFICYCPSD IQFVQEMIRQ LEQTNYRLKL CVSDRDVLPG TCVWSIASSEL IEKRCRRMVV VVSDDYLQSK ECDFQTKFAL SLSPGAHQKR LIPIKYKAMK KEFPSILRFI TVCDYTNPCT KSWFWTRLAK ALSLP.		
Formulation	MYD88 protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.4M urea and 10% glycerol.		

Introduction

Myeloid differentiation primary response gene 88 (MYD88) is a cytosolic adapter protein, which has a central role in the innate and adaptive immune response. MYD88 functions as a vital signal transducer in the interleukin-1 and Toll-like receptor signaling pathways. MYD88 acts via IRAK1, IRAK2, IRF7 and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response. The MYD88 protein increases IL-8 transcription. MYD88 is involved in IL-18-mediated signaling pathway. MYD88 activates IRF1, resulting in its rapid migration into the nucleus to mediate an efficient induction of IFN-beta, NOS2/INOS, and IL12A genes. MYD88 is comprised of an N-terminal death domain and a C-terminal Toll-interleukin1 receptor domain. Patients with defects in the MYD88 gene have an increased susceptibility to pyogenic bacterial infections.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer

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

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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

MYD88 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 345 amino acids (1-309 a.a) and having a molecular mass of 38.7kDa. MYD88 is fused to a 36 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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