

Product datasheet for PH312684

XRCC4 (NM_003401) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	XRCC4 MS Standard C13 and N15-labeled recombinant protein (NP_003392)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC212684
Predicted MW:	38.3 kDa
Protein Sequence:	>RC212684 protein sequence Red=Cloning site Green=Tags(s)

MERKISRILVSEPSITHFLQVSWEKTLESFVITLTDGHSAWTGTVSESEISQEADDMAMEKGYVGE
RKALLSGAGPADVYTFNFSKESCYFFFEKNLKDVSFRLGFSNLEKVENPAEVIRELICYCLDTIAENQAK
NEHLQKENERLLRDWVQGRFEKCVSAKEALETDLYKRFILVLNEKTKIRSLHNKLLNAAQEREKDIK
QEGETAICSEMTADRPVYDESTDEESENQTDLSGLASAAVSKDDSIISLDTVTDIAPSRKRRQRMQRNL
GTEPKMAPQENQLQEKENSRPDSSLPETSKKEHISAENMSLETLRNSSPEDLFDEI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_003392
RefSeq Size:	1688
RefSeq ORF:	1008
Synonyms:	SSMED
Locus ID:	7518



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UniProt ID: [Q13426](#), [A0A024RAL0](#), [Q7Z763](#)

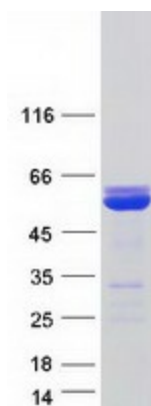
Cytogenetics: 5q14.2

Summary: The protein encoded by this gene functions together with DNA ligase IV and the DNA-dependent protein kinase in the repair of DNA double-strand breaks. This protein plays a role in both non-homologous end joining and the completion of V(D)J recombination. Mutations in this gene can cause short stature, microcephaly, and endocrine dysfunction (SSMED). Alternate transcript variants such as NM_022406 are unlikely to be expressed in some individuals due to a polymorphism (rs1805377) in the last splice acceptor site. [provided by RefSeq, Oct 2019]

Protein Families: Druggable Genome

Protein Pathways: Non-homologous end-joining

Product images:



Coomassie blue staining of purified XRCC4 protein (Cat# [TP312684]). The protein was produced from HEK293T cells transfected with XRCC4 cDNA clone (Cat# [RC212684]) using MegaTran 2.0 (Cat# [TT210002]).