

ProQinase™ RBER-CDC25tide

Generic Recombinant Protein Kinase Substrate

HGNC Symbol: n/a

Synonyms: n/a

Product No.: 0590-0000-1

Lot: 012

Description: Artificial fusion protein consisting of an N-terminal GST-tag separated by a Thrombin cleavage site from a fragment of the human retinoblastoma protein RB1, amino acids S₇₇₃-K₉₂₈ (as in [NCBI/Protein](#) entry NP_000312.2) followed by 11 Arg residues (ER) and a peptide sequence (ISDELMDATFADQEAQ; CDC25tide). Expressed in E.coli.

Theoretical MW_{Fusion Protein}: 47,608 Da

Expression host: E.coli

Purification: GST-Affinity Chromatography

Field of application:

JNK1 K55R/K56R has been validated for use in radiometric in-vitro kinase activity assays.

It is not recommended for use in ATP-consumption based kinase activity assays.

Storage buffer: 50 mM HEPES pH 7.5, 100 mM NaCl, 5 mM DTT, 15 mM reduced glutathione, 10 % glycerol

Storage temperature: -80°C

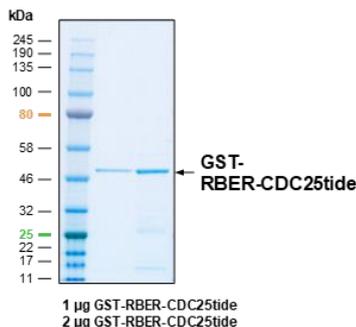
For complete recovery, mix well and spin before use. Product must not be stored in diluted solutions, aliquots below 10µl are not advisable. Avoid repeated freeze-thaw cycles!

Protein concentration: 1.274 µg/µl

(Bradford method using BSA [Sigma, cat# A-7638, Lot 79H7641] as standard protein)

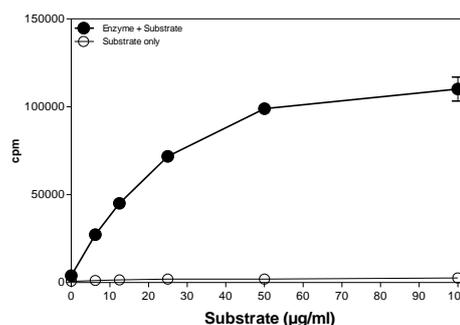
RBER-CDC25tide Lot 012:

Coomassie stain



Phosphorylation of RBER-CDC25tide by PLK1

Radiometric filter binding assay



Assay conditions:

70 mM HEPES-NaOH, pH 7.5
 3 mM MgCl₂
 3 mM MnCl₂
 3 µM Na-orthovanadate
 1.2 mM DTT
 50 µg/ml PEG_{20,000}
 ATP: 1 µM
 Substrate: variable concentration
 Kinase: 2 µg/ml
 MSFC membrane (Millipore)

This product was manufactured at Reaction Biology in Freiburg, Germany, and is for in vitro research use only, not for use in humans or animals.
 © European Union, 2020. Material may not be reproduced or distributed without written permission from Reaction Biology Europe GmbH

ProQinase™ RBER-CDC25tide

Product No.: 0590-0000-1

RBER-CDC25tide Recombinant Fusion Protein Amino Acid Sequence							
1	MSPILGYWKI	KGLVQPTRL	LEYLEEKYEE	HLYERDEGDK	WRNKKFELGL	EFPNLPYYID	60
61	GDVKLTQSMA	IIRYIADKHN	MLGGCPKERA	EISMLEGAVL	DIRYGVSRIA	YSKDFETLKV	120
121	DFLSKLP EML	KMFEDRLCHK	TYLNGDHVTH	PDFMLYDALD	VVLYMDPMCL	DAFPKLVCFK	180
181	KRIEAI PQID	KYLKSSKYIA	WPLQGWQATF	GGGDHPPKSD	LVPRGSP	TRPPTLSPIP	240
241	HIPRSPYKFP	SSPLRIPGGN	IYISPLKSPY	KISEGLPTPT	KMTPRSRILV	SIGESFGTSE	300
301	KFQKINQMC	NSDRVLKRSA	EGSNPPKPLK	KLRFDIEGSD	EADGSKHLP	ESKFQQLAE	360
361	MTSTRTRMQK	QKMNSMDTS	NKEEKRRRR	RRRRR	ISDELMDATFADQ	EAK	420

1-218: GST **Pink**: Thrombin cleavage site **blue**: RB1 fragment **Green**: R₁₁-sequence **boxed**: CDC25tide sequence