

Certificate of Analysis

TYRO3 (RSE), 10 µg

TYRO3 Protein Tyrosine Kinase, GST-tagged

ThermoFisher
SCIENTIFIC

Part Number: PV3828

Lot Number: 1868084V

Immediate Storage: -80°C

Shipping Conditions: dry ice

5781 Van Allen Way

Carlsbad, CA 92008

Phone: 760.603.7200

www.thermofisher.com

Description:

Recombinant human protein, catalytic domain (amino acids 451-890) GST-tagged, expressed in insect cells. Activated *in-vitro* via autophosphorylation.

Specific Activity:

2,910 nmoles of phosphate transferred to Abl1 peptide substrate (EAIYAAPFAKKK) per minute per mg of total protein at 30°C. Activity determined at a final protein concentration of 0.83 µg/mL.

Concentration:

0.47 mg/mL total protein as measured using the Bradford protein assay with BSA as a standard.

Calculated **6,140 nM**.

Aliases:

DKT, BRT, TIF

Storage and Handling:

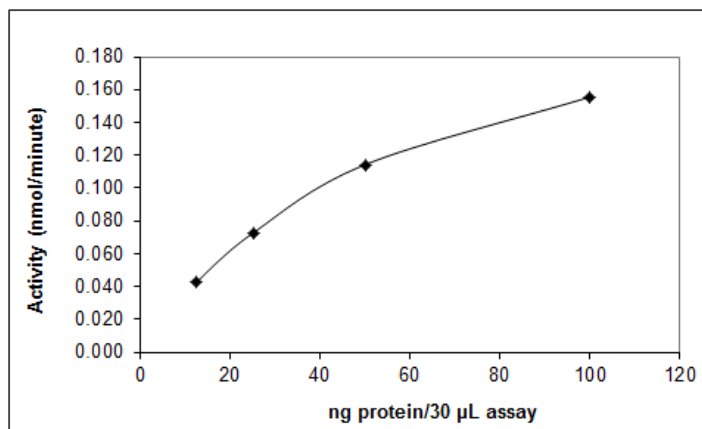
For maximum recovery please spin prior to use. Unless noted below, aliquots of the 5 µg, 10µg and 20µg sizes of kinase are not recommended as materials can be used in original packaging until exhausted. For larger sizes, the number of freeze/thaws may be reduced by preparing aliquots, aliquots below 20 µL are not recommended. **Please never store a kinase diluted.** If properly stored at -80°C, this product is guaranteed for 6 months from date of purchase.

Storage Buffer:

50 mM Tris (pH 7.5), 150 mM NaCl, 0.5 mM EDTA, 0.02% Triton® X-100, 2 mM DTT and 50% Glycerol.

QUALITY ASSURANCE

TYRO3 (RSE) Activity Graph



Dilution Buffer:

20 mM Tris (pH 7.5), 0.02% Triton® X-100, 0.1 mg/mL BSA, 2 mM DTT, 0.5 mM Na₃VO₄ and 10% Glycerol.

Assay Conditions:

TYRO3 (RSE) was pre-diluted in enzyme dilution buffer and assayed in 25 mM Tris (pH 7.5), 10 mM MgCl₂, 0.5 mM EGTA, 0.5 mM Na₃VO₄, 5 mM β-glycerophosphate, 2.5 mM DTT, 0.01% Triton® X-100, 200 µM ATP, 200 µg/mL Abl1 peptide substrate (EAIYAAPFAKKK) and trace [³²P]-γ-ATP for 10 minutes at 30°C.

Gel Information for TYRO3 (RSE)

Page Description: The SDS-PAGE and/or Native PAGE were run on 4-20% Tris-Glycine Novex® gels (Catalog #: EC6025BOX).

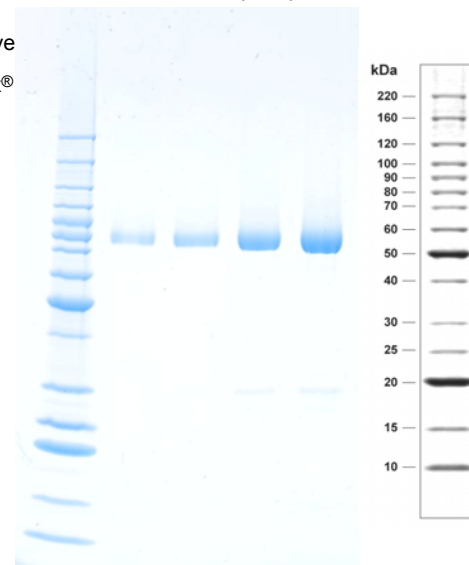
Lane 1: Invitrogen™ BenchMark™ Protein Ladder (Catalog #: 10747-012).

Lane 2: 0.4 µg TYRO3 (RSE)

Lane 3: 0.8 µg TYRO3 (RSE)

Lane 4: 2 µg TYRO3 (RSE)

Lane 5: 4 µg TYRO3 (RSE)



Purity:

80% as determined by a Coomassie® blue stained SDS-PAGE gel.

Molecular Weight:

76.6 kDa. Calculated from the protein sequence(s).

Mass Spectrometry:

TYRO3 (RSE) was subjected to proteolytic digest followed by mass spec analysis. The resulting MS/MS data verified TYRO3 (RSE) identity by comparison against the amino acid sequence(s) of the recombinant protein.

Protein sequence alignment with reference sequence(s)

GenBank Accession Number: NP_006284

1	MAPILGYWKI	KGLVQPTRLL	LEYLEEKYEE	HLYERDEGDK	WRNKKFELGL	EFPNLPYYID	GDVKLTQSM	IIRYIADKHN	MLGGCPKERA	EISMLEGAVL	GST TAG
1	MAPILGYWKI	KGLVQPTRLL	LEYLEEKYEE	HLYERDEGDK	WRNKKFELGL	EFPNLPYYID	GDVKLTQSM	IIRYIADKHN	MLGGCPKERA	EISMLEGAVL	IVGN TYR03
451											NP_006284
101	DIRYGVSRIA	YSKDFETLKV	DFLSKLPEML	KMFEDRLCHK	TYLNGDHVTH	PDFMLYDALD	VVLYMDPMCL	DAFPKLVCFK	KRIEAIQID	KYLKSSSKYIA	
101	DIRYGVSRIA	YSKDFETLKV	DFLSKLPEML	KMFEDRLCHK	TYLNGDHVTH	PDFMLYDALD	VVLYMDPMCL	DAFPKLVCFK	KRIEAIQID	KYLKSSSKYIA	
451											
201	WPLQGWQATF	GGGDHPPKSD	LVPR								
201	WPLQGWQATF	GGGDHPPKSD	LVPRHNTSL	YKAGTLRKR	RKETRFQAF	DSVMARGEPA	VHFRAARSFN	RERPERIEAT	LDSLGISDEL	KEKLEDVLIP	
451				-----LRKR	RKETRFQAF	DSVMARGEPA	VHFRAARSFN	RERPERIEAT	LDSLGISDEL	KEKLEDVLIP	
224											
301	EQQFTLGRML	GKGEFGSVRE	AQLKQEDGSF	VKAVKMLKA	DIASSDIEE	FLREAACMKE	FDHPHVAKLV	GVSLRSRAKG	RLPIPMVILP	FMKHGDLHAF	
515	EQQFTLGRML	GKGEFGSVRE	AQLKQEDGSF	VKAVKMLKA	DIASSDIEE	FLREAACMKE	FDHPHVAKLV	GVSLRSRAKG	RLPIPMVILP	FMKHGDLHAF	
224											
401	LLASRIGENP	FNLPLQTLIR	FMVDIACGME	YLSSRNFIHR	DLAARNCMLA	EDMTVCVADF	GLSRKIYSGD	YYRQGCASKL	PVKWLALES	ADNLYTVQSD	
615	LLASRIGENP	FNLPLQTLIR	FMVDIACGME	YLSSRNFIHR	DLAARNCMLA	EDMTVCVADF	GLSRKIYSGD	YYRQGCASKL	PVKWLALES	ADNLYTVQSD	
224											
501	VWAFGVTMWE	IMTRGQTPYA	GIENAEIYNY	LIGGNRLKQP	PECMEDVYDL	MYQCWSADPK	QRPSFTCLRM	ELENILGQLS	VLSASQDPLY	INIERAEPT	
715	VWAFGVTMWE	IMTRGQTPYA	GIENAEIYNY	LIGGNRLKQP	PECMEDVYDL	MYQCWSADPK	QRPSFTCLRM	ELENILGQLS	VLSASQDPLY	INIERAEPT	
224											
601	AGGSLELPGR	DQPYSAGDGD	SGMGAVGGTP	SDCRYILTPG	GLAEQPGQAE	HQPESPLNET	QRLLLLQQGL	LPHSSC			
815	AGGSLELPGR	DQPYSAGDGD	SGMGAVGGTP	SDCRYILTPG	GLAEQPGQAE	HQPESPLNET	QRLLLLQQGL	LPHSSC			

* highlighted residues denote differences from the reference protein sequence(s).

Anita Targosz

Anita Targosz, Associate Director

Date: 01/Mar/2017

Novex® is a registered trademark of Life Technologies Corporation.
Invitrogen™ is a trademark of Life Technologies Corporation.
BenchMark™ is a trademark of Life Technologies Corporation.
Coomassie® is a registered trademark of Imperial Chemical Industries.
Triton® is a registered trademark of Union Carbide Chemicals and Plastics Co., Inc.

For Research Use Only. Not for use in diagnostic procedures.