

TNF-alpha cell line

TNF-alpha Looporter HEK293 Cell Line

CATALOG #
AAA78384

APPLICATIONS
Functional Assay

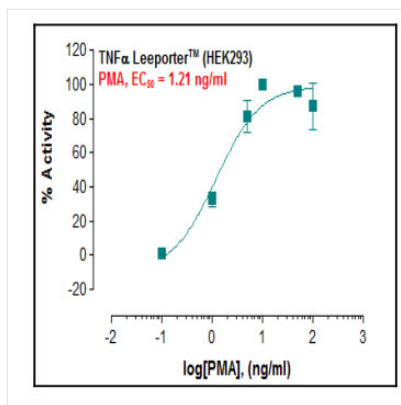
PRODUCT SYNONYMS

TNF-alpha; TNF-alpha Looporter HEK293 Cell Line; TNF-alpha cell line

PRODUCT SPECIFICATIONS

Form/Format	Each vial contains 2 ~ 3 x 10 ⁶ cells in 1 ml of 90% FBS + 10% DMSO.
Sequence Length	233
Applicable Applications for TNF-alpha cell line	FA (Functional Assay)
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Functional validation	A. Response of TNF-alpha Looporter™ – HEK293 cells to phorbol 12-myristate 13-acetate. 1. Harvest TNF-alpha Looporter™ – HEK293 cells and seed cells into a white solid-bottom 96-well microplate in 100 ul of growth medium at 5 x 10⁴ cells/well. 2. Incubate cells at 37 degree C in a CO2 incubator for overnight. 3. The next day, stimulate cells with different concentrations of phorbol 12-myristate 13-acetate (PMA). 4. Incubate at 37 degree C in a CO2 incubator for 6-16 hours. 5. Add 50 ul of luciferase assay reagent per well. 6. Incubate at room temperature for 1-5 minutes and measure luminescence using a microplate luminometer.
Preparation and Storage	Immediately upon receipt, store in liquid nitrogen. Dry Ice Shipment: Extra charge fee may add to your shipping cost as dry ice is required to ship this product. Shipping Note: Product is available for shipment in the United States, Canada and European countries. Please inquire for shipment to other countries.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for TNF-alpha cell line	Principle of the Assay: The TNF-alpha LEEporter™ Luciferase Reporter cell line is a stably transfected HEK 293 cell line which expresses Renilla luciferase reporter gene under the transcriptional control of the TNF-alpha promoter. Tumor necrosis factor-alpha (TNF-alpha) is one of the major proinflammatory cytokines and can induce systemic inflammation, apoptotic cell death, sepsis and cachexia. Dysregulation of TNF-alpha induction is often involved in various human diseases including inflammatory bowel disease, cancer and Alzheimer's disease. The TNF-alpha induction by phorbol 12-myristate 13-acetate (PMA) is shown in Figure 1.
Product Categories/Family for TNF-alpha cell line	Cell Lines; Reporter Cell Lines

NCBI AND UNIPROT INFORMATION

NCBI GI #	37210
NCBI GeneID	7124
UniProt Accession #	P01375; O43647; Q9P1Q2; Q9UIV3
NCBI Official Full Name	TNF-alpha
NCBI Official Synonym Full Names	tumor necrosis factor
NCBI Official Symbol	TNF
NCBI Official Synonym Symbols	DIF; TNFA; TNFSF2; TNLG1F; TNF-alpha
NCBI Protein Information	tumor necrosis factor
UniProt Protein Name	Tumor necrosis factor
UniProt Gene Name	TNF
UniProt Synonym Gene Names	TNFA; TNFSF2; TNF-a; NTF; ICD1; ICD2

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.