# Data Sheet (Cat.No.TMPY-00263)

## DR6 Protein, Cynomolgus, Recombinant (His)

### General Information

Synonyms: tumor necrosis factor receptor superfamily, member 21

Protein Construction: Gln42-His349

Species: Cynomolgus

Expression Host: HEK293 Cells

Accession: A0A2K5VIJ8

Molecular Weight: 34.50 kDa (Predicted); 60-70 kDa (Due to glycosylation)

### QC Testing

Biological Activity: Immobilized Cynomolgus DR6, His Tag at 0.2 μg/ml (100 μl/well) on the plate. Dose response curve for Anti-DR6 Antibody, hFc Tag with the EC50 of 4.0 ng/ml determined by ELISA.

Purity: > 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC

Endotoxin: Less than 1EU per μg by the LAL method.

Formulation: Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

### Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Shipping:

In general, Lyophilized powders are shipping with blue ice. Solutions are shipping with dry ice.

### Protein Background

beta-amyloid precursor protein (APP) and death receptor 6 (DR6, also known as TNFRSF21) activate a widespread caspase-dependent self-destruction program. DR6 is broadly expressed by developing neurons, and is required for normal cell body death and axonal pruning both in vivo and after trophic-factor deprivation in vitro.DR6 is activated locally by an inactive surface ligand(s) that is released in an active form after trophic-factor deprivation.

Reference

Pan G,et al.(1998) Identification and functional characterization of DR6, a novel death domain-containing TNF receptor. FEBS Lett. 431(3): 351-6.
Benschop R,et al.(2009) Tumor necrosis factor receptor superfamily member 21: TNFR-related death receptor-6, DR6. Adv Exp Med Biol. 647: 186-94.
Klma M,et al.(2009) Functional analysis of the posttranslational modifications of the death receptor 6. Biochim Biophys Acta. 1793(10): 1579-87.



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