

## Drug Affinity Responsive Target Stability (DARTS) Assay Kit

### Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: -20°C for 1 year  
Actual storage temperature shall be subject to the COA.

### Biological Description

#### Description

Drug Affinity Responsive Target Stability (DARTS) Assay Kit, based on the conventional DARTS technology, provides a method to verify the direct binding between small-molecule drugs and target proteins without the need for compound modification. First proposed by Lomenick et al. in 2009, this technique has become a sensitive, reliable, and easy-to-use tool for drug target identification and mechanism-of-action studies. This kit provides the key buffers and protease digestion systems required for DARTS experiments, enabling efficient and sensitive detection of compound-target protein interactions. The method requires no compound labeling or modification, features a simple workflow and intuitive results, and can be combined with Western blotting, LC-MS/MS, or proteomics analysis. It offers an efficient and reliable experimental solution for drug discovery, target identification, and mechanism research.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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