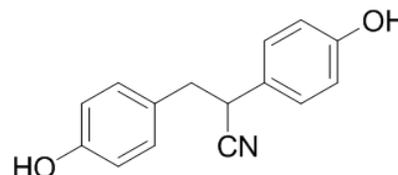


**Product Name** : Diarylpropionitrile  
**Cat. No.** : PC-43041  
**CAS No.** : 1428-67-7  
**Molecular Formula** : C<sub>15</sub>H<sub>13</sub>NO<sub>2</sub>  
**Molecular Weight** : 239.2692  
**Target** : Estrogen Receptor/ERR  
**Solubility** : 10 mM in DMSO



## Biological Activity

Diarylpropionitrile (DPN) is a non-steroidal estrogen receptor  $\beta$ (ER $\beta$ ) selective ligand agonist, demonstrates the neuroprotective effects against 10  $\mu$ M A $\beta$ 1-42-induced oxidative stress and inflammation in primary rat cortical cell culture. Diarylpropionitrile (1-100 nM) significantly decreases neuronal cell death by increasing cell viability through a significant attenuation in the reactive oxygen species level, downregulation of pro-apoptotic activated caspase-3 and Bax, and upregulation of anti-apoptotic Bcl-2; decreases the expression levels of IL-1 $\beta$  and IL-6; inhibits medulloblastoma development via anti-proliferative and pro-apoptotic pathways.

## References

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Mancuso M, et al. *Cancer Lett*. 2011 Sep 28;308(2):197-202.  
Motylewska E, et al. *Cancer Lett*. 2009 Apr 8;276(1):68-73.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

E-mail: tech@probechem.com