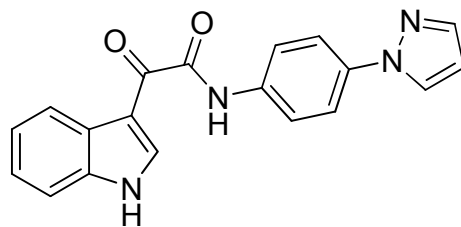


## 29023 New Anti-prion Compounds

### The Technology

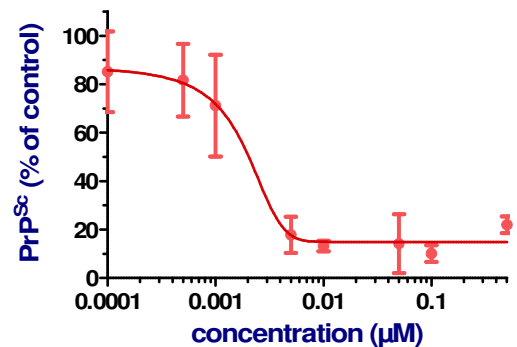
A research group at the University of Sheffield have discovered a novel class of compounds in cellular assays for anti-prion activity. The best known property of cellular prion protein (PrPC) is its unique ability to undergo conformational change into a pathogenic conformer, PrP<sup>Sc</sup>, that accumulates in the brain as insoluble aggregates. This process leads to neuronal dysfunction and progressive neurodegeneration, a distinctive feature shared by all transmissible spongiform encephalopathies (TSE), a family of lethal neurodegenerative diseases including scrapie in sheep, "mad cow disease" (BSE) in cattle, Kuru and Creutzfeldt-Jakob disease in humans. There is currently no effective treatment.

The group have synthesised a novel class of indole-3-glyoxylamide compounds with potent anti-prion activities in cellular assay. The structure of an active compound with an EC<sub>50</sub> of 1.3 nM is shown below. These results have recently been published (Thompson, M.J. *et al.* J. Med. Chem. 2009. 52 (23), 7503-7511). This class of compounds are drug-like compounds and have good preliminary in vitro DMPK profiles.



**EC<sub>50</sub> = 1.3 nM**

11 other examples < 100 nM



### Intellectual Property

This technology is protected by Patent Application filed in September 2009.

### The Opportunity

We are seeking commercial licensing and collaborative development opportunities for these compounds, including possible extensions of their use.

**For commercial enquiries on this technology, please contact Andrew Tingey, quoting reference 29023.**

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