

Deliverables and timescales for a standard project

Stage	Deliverables and Responsibilities	Estimated time scale (months)
Project definition	Client and ESP* create comprehensive document outlining project rationale and critical path.	1 – 3
Funding solution	Client and ESP* identify optimal funding solution and prepare submission document for granting bodies.	3 - 12
Reagent development	ESP* and/or partners design and/or source appropriate cell and Biochemical Reagents suitable for an HTS campaign.	1 – 4
Assay Development (Primary, Profiling and Counter screens)	ESP* and/or partners design and validate an HTS compatible BioAssay in 384, 1v384 or 1536 well format (Z', Z, XC ₅₀ test cpds, spatial and temporal uniformity, reagent stability).	2 - 6
Primary Screening	ESP* and/or partners prosecute primary HTS and confirmation (triplicate) screens. Deliver compound hit list.	2 - 3
Hit profiling and Counter screens	ESP* and/or partners determine dose response (11pt in duplicates) to validate biological relevance and specificity of hits. Deliver validated hits.	1
Chemi-informatic and Bio-informatic analyses	ESP* delivers comprehensive SAR analysis of validated hits, including calculated physicochemical properties, solubility, PSA. If appropriate a round of virtual screening will be used to identify new compounds.	1
Hit confirmation with dry samples	ESP* and/or partners confirm biological activity with fresh samples identified and/or supplied by client.	1-2
Secondary Assay (Cell-Based Assay)	ESP* and/or partners confirms bio-activity in cell based assay systems. Deliverable- validated hits with greater confidence in biological mechanism of action.	1-2
Developability assays (Cell based High Content format)	ESP* and/or partners identify liabilities with compounds using panel of assays (live/dead; apoptosis induction, induction/repression of proliferation). Deliverables are validated hits with <i>in-vitro</i> toxicity profile.	1 - 2
Project Definition for Hit-to-Lead and Candidate seeking	ESP* and/or partners will formulate a workplan for a Hit-to-Lead and Candidate seeking campaign to support the client's identification of additional project funding.	1 – 3
Lead Optimisation and Candidate seeking	ESP* can manage Lead Optimisation and Candidate seeking programs for academic clients, using the medicinal chemistry and <i>in-vitro</i> and <i>in-vivo</i> assay expertise of our partners.	12 - 24

* European ScreeningPort